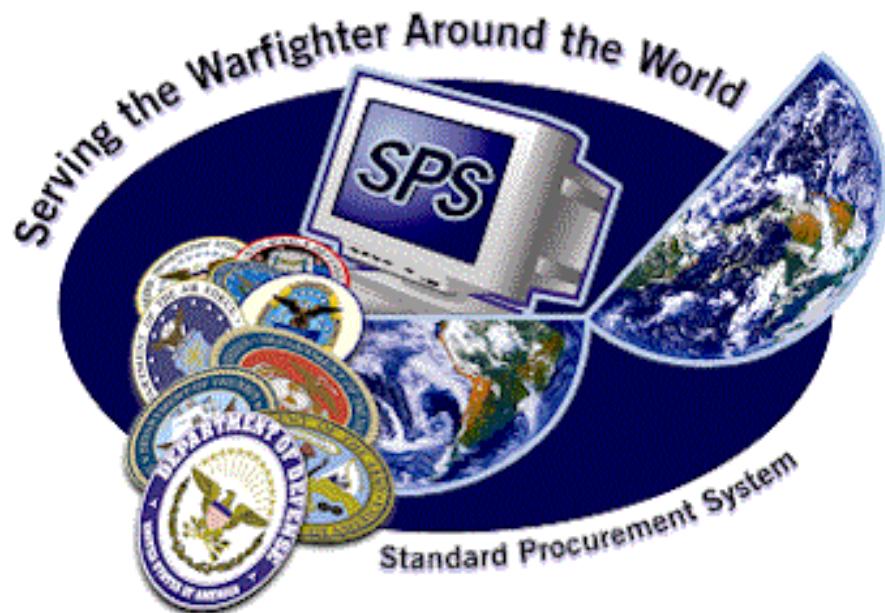




# *Adaptive Technology Briefing*



## ***Air Force e-Business Training Workshop***

**November 18-20, 2003**

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# Agenda

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- *Purpose*
- *Adapter Overview*
- *Translator*
- *Integration Product Set Demo*



# ***Purpose***

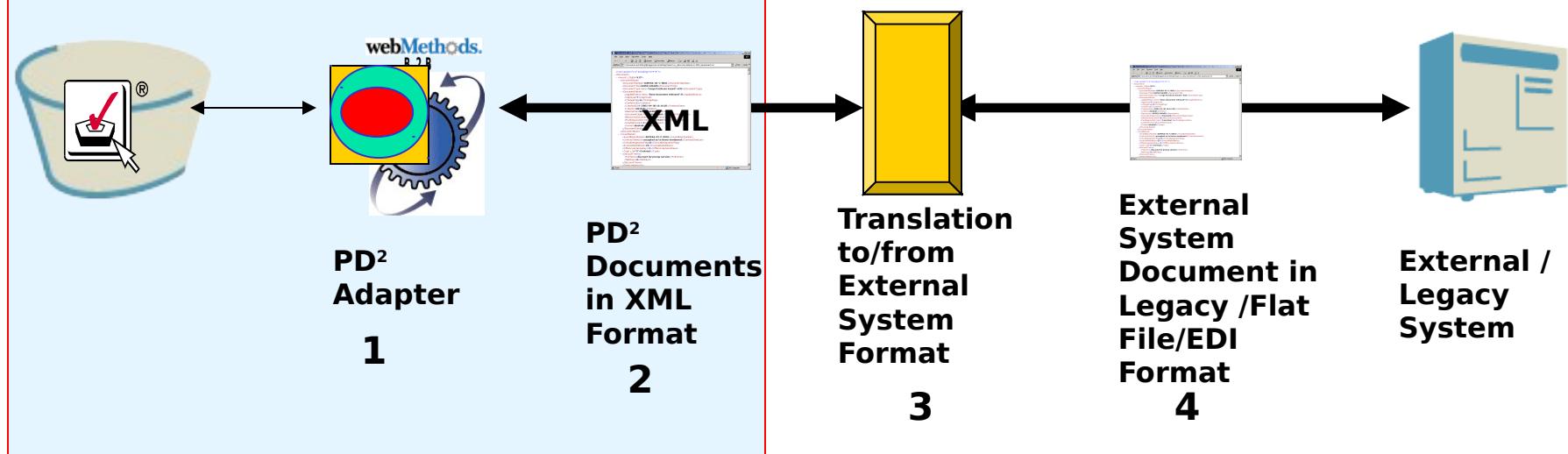
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***Explain the Role of the PD<sup>2</sup> Adapter  
and its Components in the  
Integration Product Set for  
Interfacing with External Systems***



# Integration Product Set

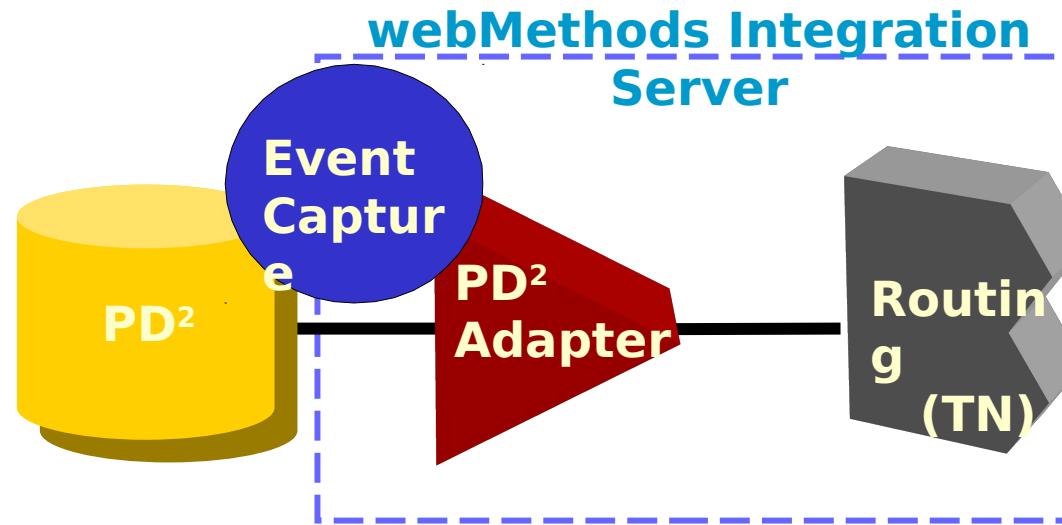
## Integration Product Set





# *What is an Adapter?*

*An Adapter is a Collection of Pre-Built Services Stored in one or more Packages*





# **PD<sup>2</sup> Adapter Overview**

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- ***PD<sup>2</sup> Adapter is Designed to be Generic and Useable Across Multiple External Systems***
- ***The PD<sup>2</sup> Adapter can Integrate with any External System that can Accept XML files***
- ***The Documents can be Received and Sent using Different Transport Mechanisms***
  - *e.g., HTTP, HTTPS, FTP, etc*
- ***Supports, SSL and Provides Reliable Delivery, Audit Trails, Content Routing and Interacts with Multiple Internal and External Databases***



# ***PD<sup>2</sup> Adapter Success Stories***

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- ***Navy MSC***
  - ***Oracle Financials integrating with SPS***
- ***NAVAIR***
  - ***SAP (Pr and Financials) integrating with SPS***
- ***ILSMIS***
  - ***Navy Requisition and Financial system integrating with SPS***
- ***US Marine Corps***
  - ***PR builder + Financial System integration with SPS***
- ***DLA BSM***
  - ***SAP integrating with SPS***



# ***PD<sup>2</sup> Adapter Benefits***

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- ***Data migration***
- ***Easy installation***
- ***Low maintenance***
- ***Auditing***
- ***Facilitate matrix reporting capability***
- ***Real time processing***
- ***Reusability***



# ***PD<sup>2</sup> Adapter***

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- ***Components***
- ***Architecture***
- ***Triggers***
- ***Polling***
- ***System Administration***

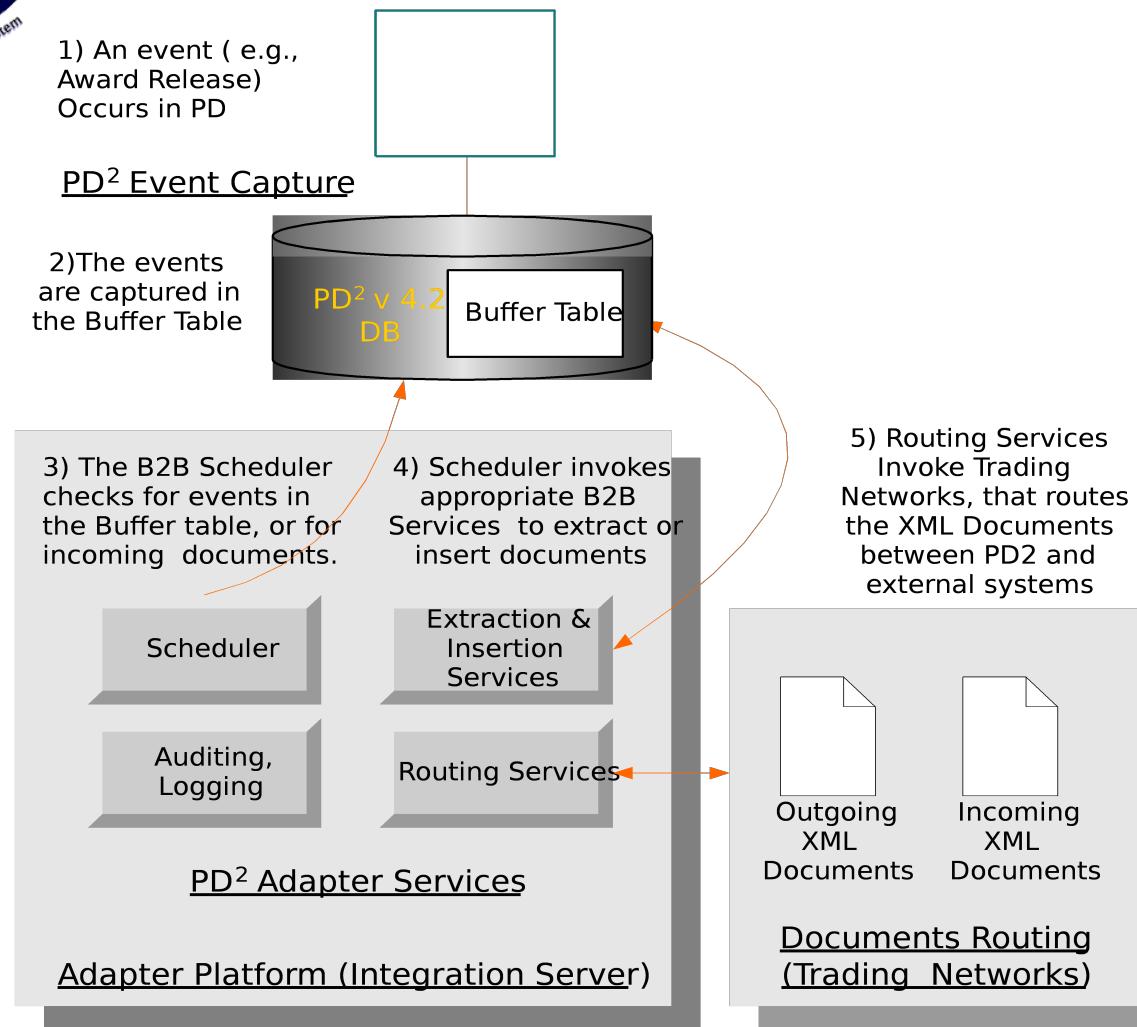


# ***PD<sup>2</sup> Adapter Components***

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- 1. Adapter Platform - webMethods Integration Server***
- 2. Adapter Services - Custom Java & Flow services***
- 3. Event Capture - Pre-defined events in the PD<sup>2</sup> and TN databases***
- 4. XML Documents - Documents extracted from and inserted into the PD<sup>2</sup> database are encoded in XML***
- 5. Document Routing - Enhanced routing of XML documents between***

# General Architecture Diagram





# Triggers

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- **To capture events taking place in the PD<sup>2</sup> application, the PD<sup>2</sup> Adapter utilizes triggers**
- **A trigger is a stored procedure that goes into effect when a user inserts, deletes, or updates data in a table**
- **A trigger executes automatically when a user attempts a specified data modification statement on a specified table**
- **Each table in a database can have at most 3 triggers defined--one for inserts, one for deletes, and one for updates**
- **The trigger populates a new row in the buffer table, which is polled on a regular**



# **Polling**

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- ***Polling services are integration services defined on the Integration Server.***
- ***Periodically checks the buffer table to find out which relevant events have been recorded, and based on this information invoke the appropriate document Extraction service.***
- ***Periodically checks the TN repository to find out if there are documents waiting for Insertion***



# PD<sup>2</sup> Adapter System Administration

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***Roles and responsibility of a SA:***

- ***Ensure the Integration Server is up and running***
- ***Assigning user name and passwords***
- ***Monitoring the server***
- ***Assisting upgrades***
- ***Configuration***
- ***Initial installation and configuration time 4-6 hours***
- ***Overall commitment of 2.5 hours per week***
- ***Troubleshooting***



# Air Force Interfaces

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- **SPS-I Air Force Interfaces**

- **Automated Business Services System (ABSS)**
- **Integrated Accounting and Payment System (IAPS)**
- **Federal Procurement Data (J001)**
- **Medical Material Management System (MEDLOG) / Defense Medical Logistics Supply System (DMLSS)**
- **MONGOOSE**
- **Standard Base Supply System (SBSS)**
- **Wholesale/Retail Receiving/Shipping System (WARRS)**
- **Workload Information Management System (WIMS) / Civil Engineer Material Acquisition System (CEMAS)**



# Translator

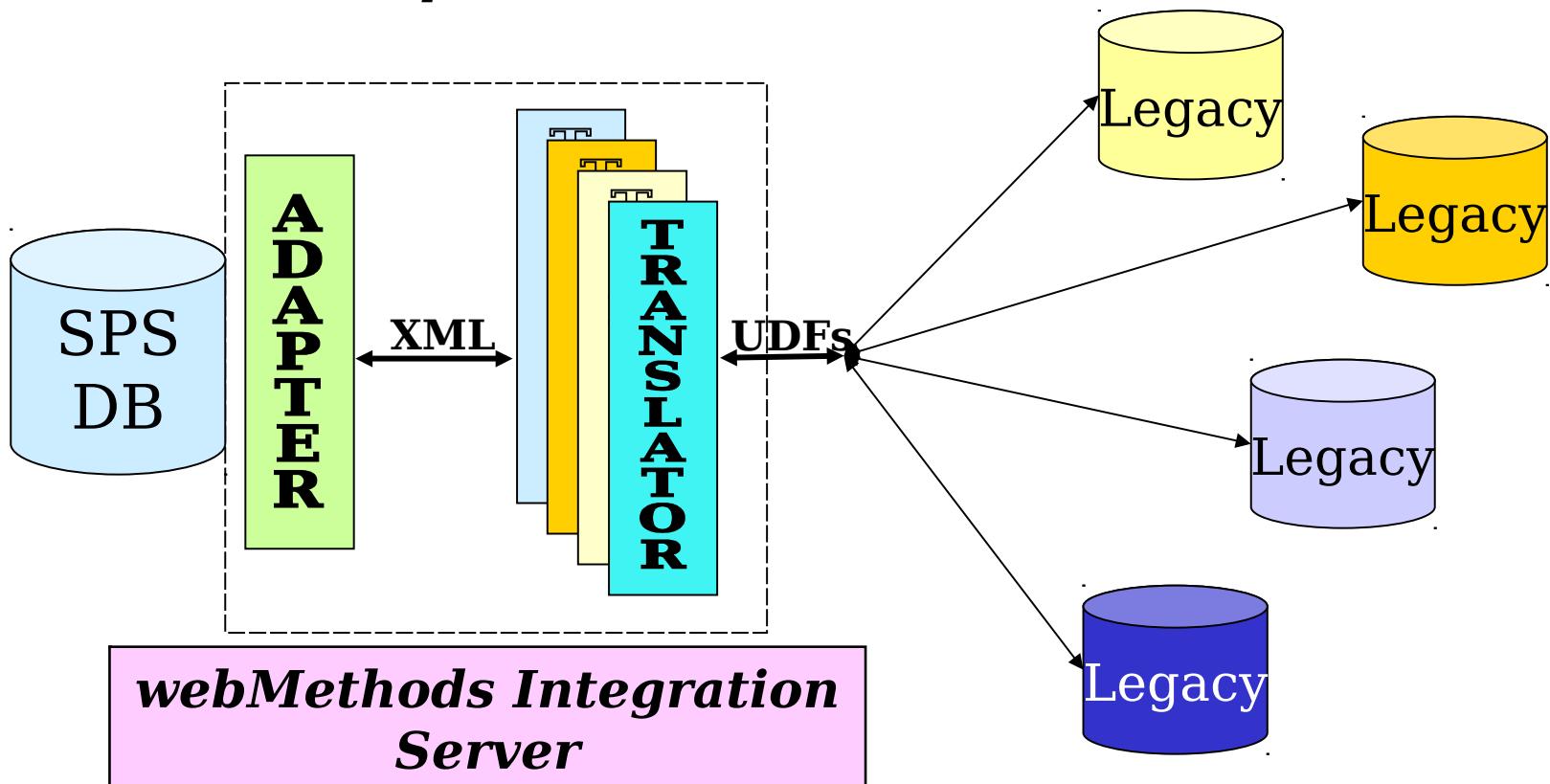
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- ***Accepts XML documents from the PD<sup>2</sup> Adapter and converts them into UDF's and vice versa***
- ***It is modular and provides the following implementation options:***
  - SPS-I Replacement***
  - Centralized Admin***
  - Separate Adapter & Translator***
- ***Multiple Translators can reside on the same server***



# Implementation Option #1

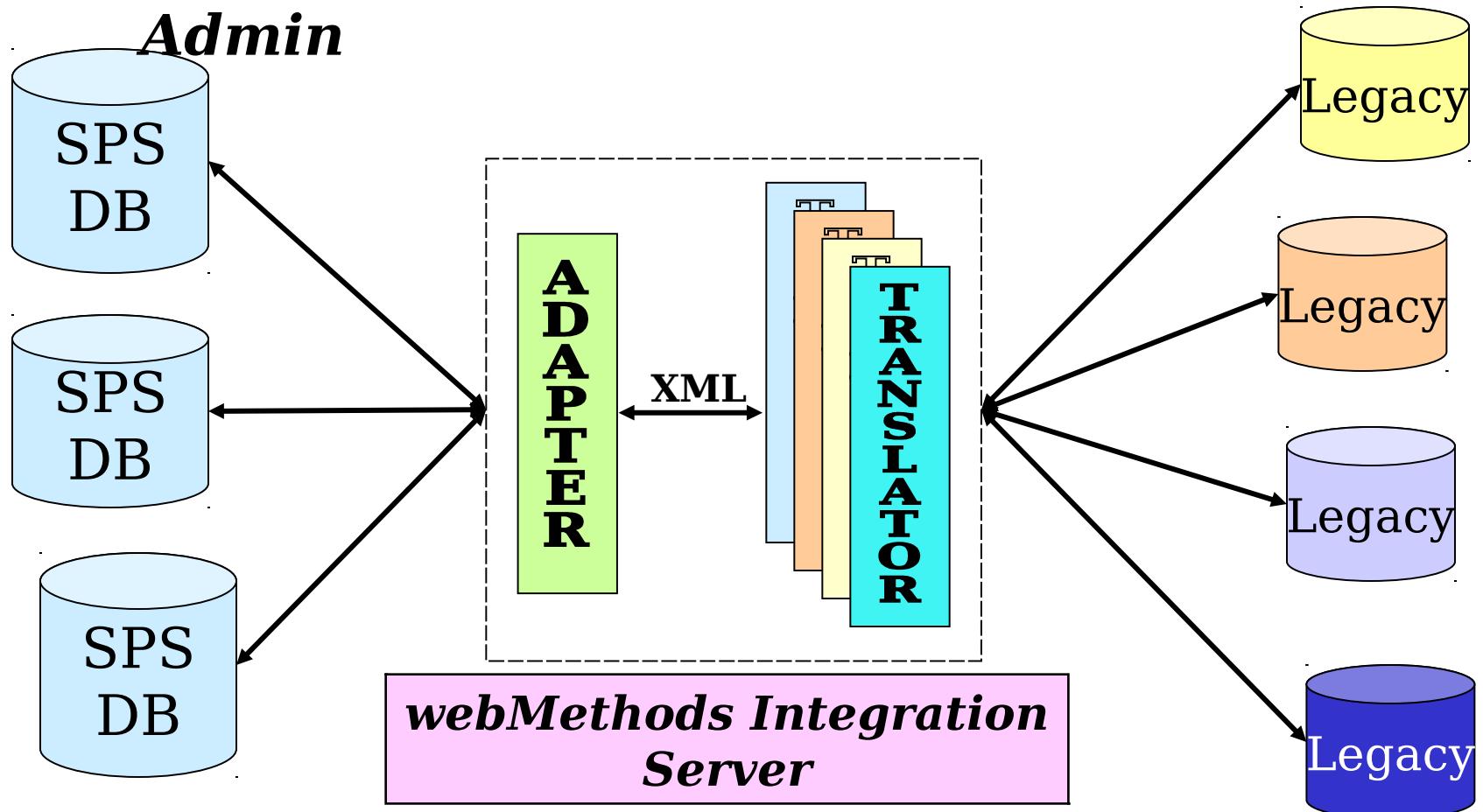
## *SPS-I Replacement*





# Implementation Option #2

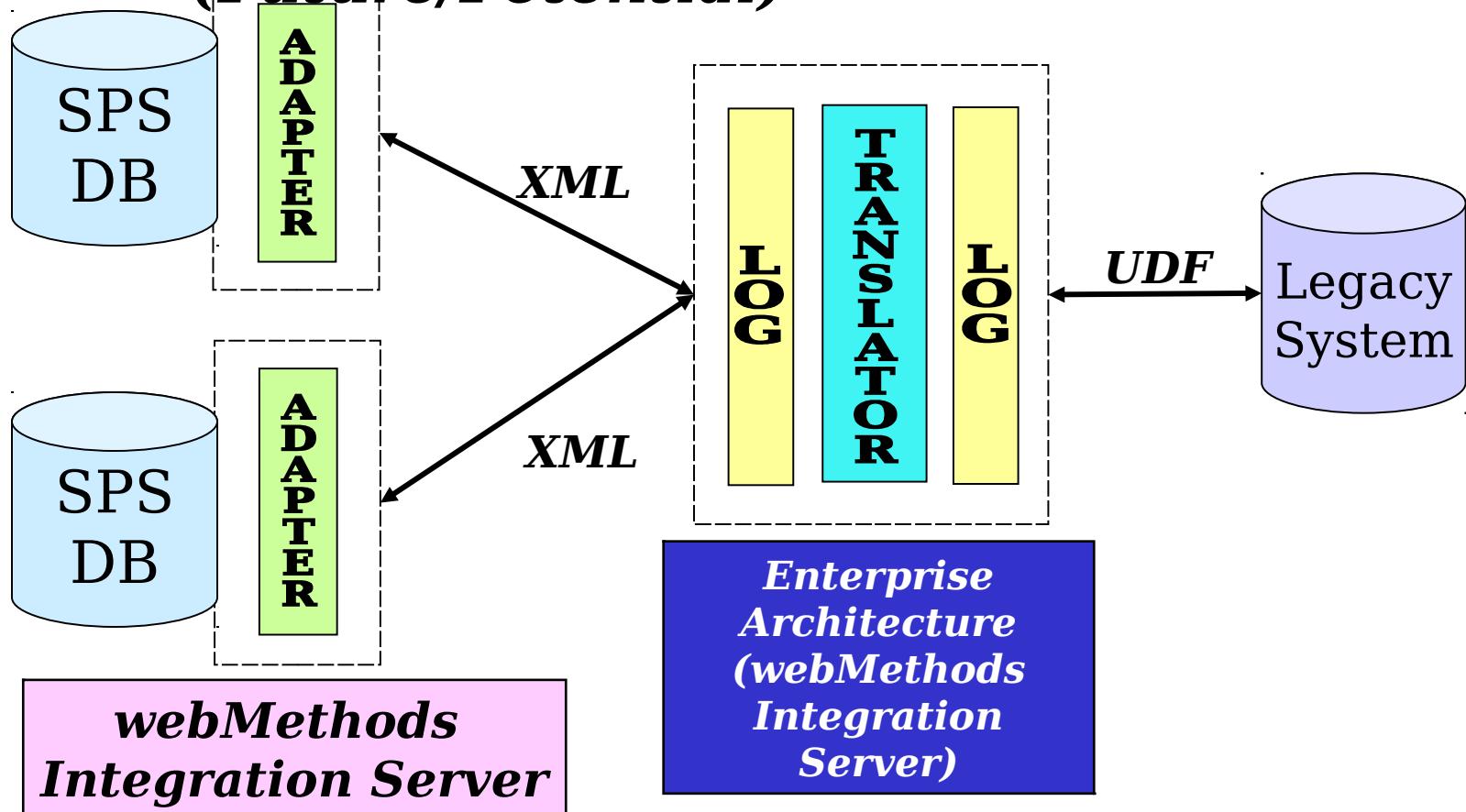
## Centralized Admin



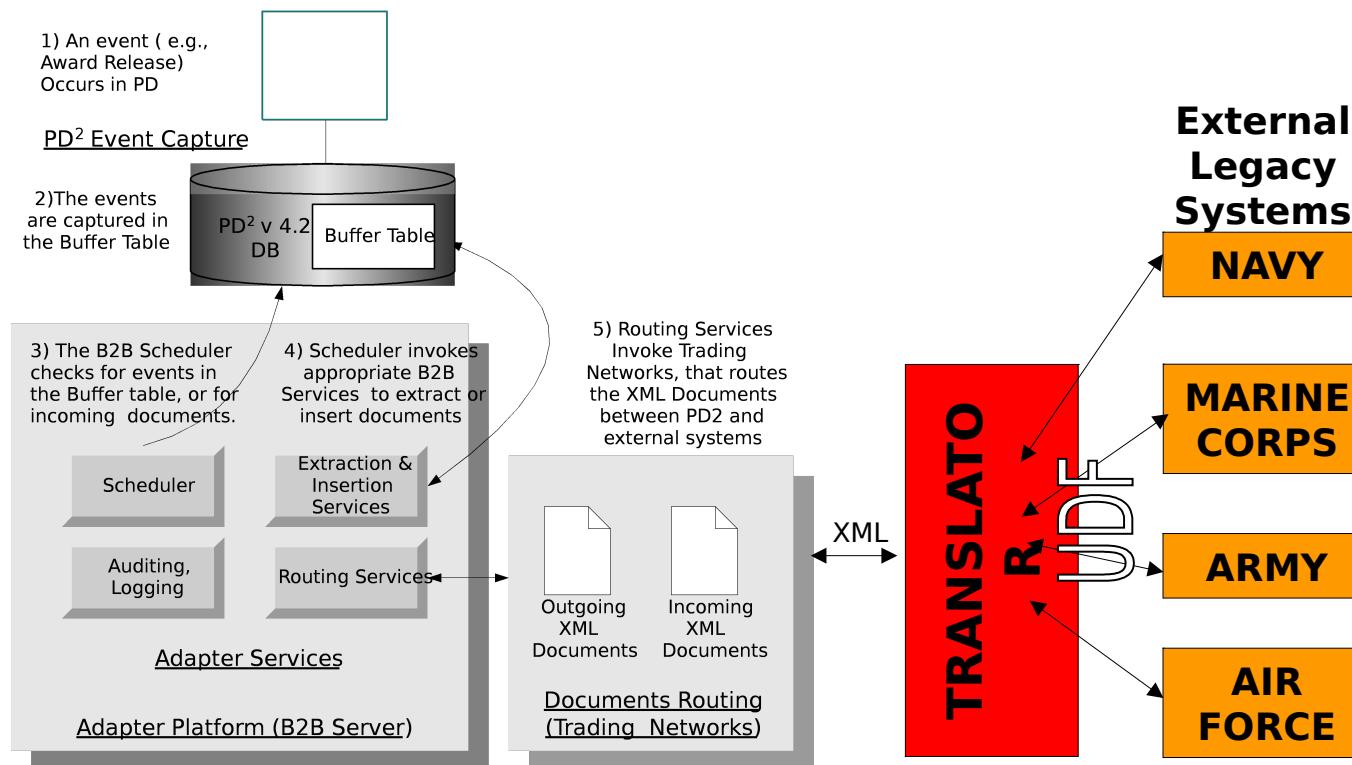


# Implementation Option #3

## Separate Adapter & Translator (Future/Potential)



# Proposed Translator Architecture

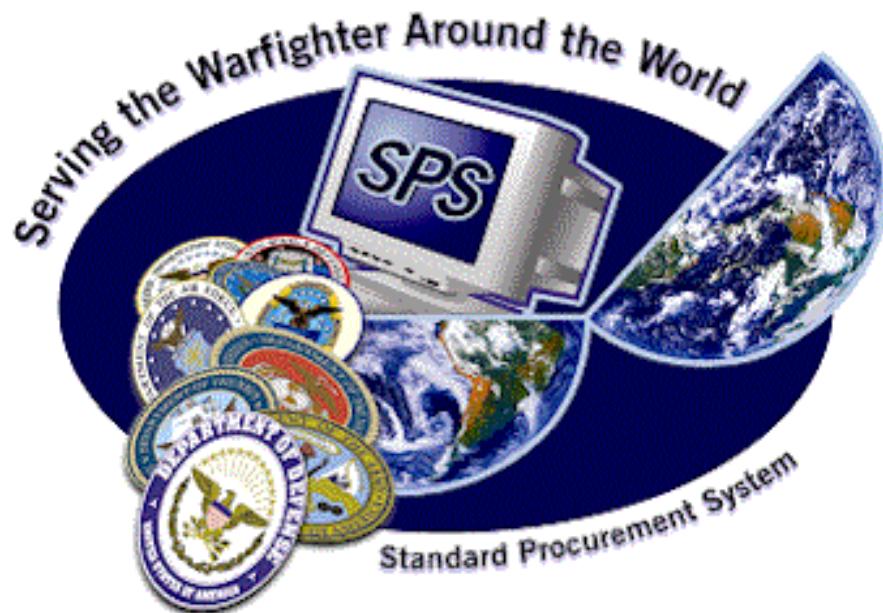




# Integration Product Set Demo

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- 1. Incoming PR XML from an external system into PD<sup>2</sup> - PD<sup>2</sup> Adapter**
- 2. Outgoing approved and released Award XML - PD<sup>2</sup> Adapter**
- 3. Outgoing UDF Award Flat File using the Award XML - Translator**



# Questions?

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